

TITLE  
TRANSPARENT PARAMAGNETIC POLYMER

ABSTRACT OF THE DISCLOSURE

This invention provides a transparent, paramagnetic polymer  
10 composition in which a polymer is complexed with sufficient rare earth ions,  
particularly ions selected from ions in the group of elements 64 – 69, to  
provide a polymer with a magnetic mass susceptibility greater than  $20 \times 10^{-6}$   
emu/g measured at 298 °K.

This invention provides optically responsive devices that employ these  
15 transparent, paramagnetic polymers as an element that is responsive to a  
magnetic field and a means for providing magnetic field.

This invention provides transparent labels or markings employing these  
transparent, paramagnetic polymers.